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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,939	08/21/2003	Jerry Joe Langin-Hooper		1762

26667 7590 09/08/2008  
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EXAMINER
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KIM, JUNG W

ART UNIT	PAPER NUMBER
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2132

MAIL DATE	DELIVERY MODE
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09/08/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/646,939

**Applicant(s)**

LANGIN-HOOPER ET AL.

**Examiner**

JUNG KIM

**Art Unit**

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) 1, 5-7 and 14 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2-4, 8-13 and 15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/5508)  
Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. The indicated allowability of claims 2-4, 8-13 and 15 are withdrawn in view of the 112/2<sup>nd</sup> paragraph rejections presented below. The finality of the office action mailed on 5/30/08 is withdrawn in view of these rejections.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:  

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claims 2-4, 8-13 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
4. As per claim 2, step (m) recites "providing each pseudo-random number to long-term storage register ...", which suggest provisioning a plurality of pseudo-random numbers to long-term storage register; however, step (l) merely recites "retrieve and extract at least one pseudo-random number ...", which only defines at least one pseudo-random number.
5. Dependent claims 3, 4 and 8-13 do not rectify the indefiniteness of claim 2; hence these claims also fail to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. As per claim 8, step (b) defines "sequentially apply and update second modulus operators  $r_{sub.1,1} -- r_{sub.g,1}$ ,  $r_{sub.1,2} -- r_{sub.g,2}$ , ...  $r_{sub.1,n+d-k} -- r_{sub.g,n+d-k}$  to said updated output series of pseudo-random number matrices ..."; however, neither dependent claim 8 nor independent claim 2 define second modulus operators  $r_{sub.1,2} - r_{sub.g,2}$ , ...  $r_{sub.1,n+d-k} - r_{sub.g,n+d-k}$ .

7. Dependent claims 9 and 11 do not rectify the indefiniteness of claim 8; hence these claims also fail to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

8. As per claim 10, step (a) defines "wherein said first modulus operators  $m_{sub.1,1} -- m_{sub.j,1}$ ,  $m_{sub.1,2} -- m_{sub.j,2}$ , ...  $m_{sub.1,n+d-k} -- m_{sub.j,n+d-k}$  comprise a uniform variable modular reduction ..."; however, neither dependent claim 10 nor independent claims 2 or 3 define second modulus operators  $m_{sub.1,1} -- m_{sub.j,1}$ ,  $m_{sub.1,2} -- m_{sub.j,2}$ , ...  $m_{sub.1,n+d-k} -- m_{sub.j,n+d-k}$ .

9. As per claim 12, step (a) defines "create at least one alternate storage register of pseudo-random number matrices by separately taking steps a – t ..."; however, steps a -- d are listed in two different places: one set is listed in independent claim 2 and one set is listed in dependent claim 12.

10. As per claim 13, step (b) defines "adjust augmentation matrices  $B_{sub.1,1} -- B_{sub.j,1}$ ,  $B_{sub.1,2} -- B_{sub.j,2}$ , ...  $B_{sub.1,n+d-k} -- B_{sub.j,n+d-k}$  to said updated output series of pseudo-random number matrices ..."; however, neither dependent claim 13 nor independent claims 2 or 3 define second modulus  $B_{sub.1,n+d-k} -- B_{sub.j,n+d-k}$ .

11. Claim 15 recites the limitation "said updated output series of pseudo-random number matrices  $X_{sub.n-k+1} - X_{sub.n}$ " in step (j). There is insufficient antecedent basis for this limitation in the claim.

### ***Communications Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung W. Kim whose telephone number is 571-272-3804. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jung Kim/  
Primary Examiner, AU 2132